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ABSTRACT

Apparatus for treating a condition of a subject is provided. An electrode device is adapted to be coupled to longitudinal nervous tissue of the subject, and a control unit is adapted to drive the electrode device to apply to the nervous tissue a current which is capable of inducing action potentials that propagate in the nervous tissue in a first direction, so as to treat the condition. The control unit is further adapted to suppress action potentials from propagating in the nervous tissue in a second direction opposite to the first direction.